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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/548,087	06/20/2006	Ivan Ivanov	1021-1005	2100

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EXAMINER

NGUYEN, NGA X

ART UNIT	PAPER NUMBER
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3662

NOTIFICATION DATE	DELIVERY MODE
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04/09/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

daniel@dkpat.co.il
info@dkpat.co.il

Office Action Summary	Application No. 10/548,087	Applicant(s) IVANOV ET AL.	
	Examiner NGA X. NGUYEN	Art Unit 3662	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 January 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 10-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 10-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 May 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 10, 14-17 & 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoshima (6052084) in view of Park (20070103366).

With regard to claim 10 & 17, Aoshima discloses:

- A motor coupled to adjust an orientation of the antenna (see column 10, lines 39-48).
- Angular velocity sensors configured to generate outputs indicating a measure of a rotation of the antenna (see column 17, line 8-20)
- An antenna control block, which is coupled to receive and process the outputs so as to calculate a correction to be applied to the measure of the rotation, and to cause the motor to change the orientation of the antenna responsively to the measure of the rotation subject to the correction (see column 17-18, lines 25-22).

Park teaches:

- Angular velocity sensors configured to generate outputs indicating a measure of a rotation of the antenna about respective axes (see page 4, paragraph 51)

It would have been obvious to modify Aoshima by incorporating the teaching of Park's system to have Angular velocity sensors configured to generate outputs indicating a

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measure of a rotation of the antenna about respective axes so as the device is improved to track satellite.

With regard to claim 14-15 & 21-22, Aoshima teaches an electronic beam control block adjusting a beam direction of the antenna under control of the antenna control block (see column 12, lines 7-65).

With regard to claim 16 & 23, Aoshima teaches the antenna control block perform a coordinate transformation (see column 17, lines 24-34).

2. Claim 11-13 & 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoshima and Park as applied to claim 10 above, and further in view of Kuroda (4586050).

With regard to claim 11 & 18, Park teaches that an inclination sensor which is configured to measure an inclination of the antenna, wherein the antenna control block calculating a correction responsively to the measured inclination (see column 4, lines 13-25).

It would have been obvious to modify Aoshima by incorporating the teaching of Park's system and further the teaching of Kuroda's system to measure inclination of the antenna so as the device is tracking satellites more accuracy.

With regard to claim 12 & 19, teaches that the angular velocity sensors are configured to sense the rotation of the antenna about respective horizontal axes, wherein the inclination sensor is configured to measure the inclination of the antenna relative to a vertical axis (see column 4, lines 20-23)

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With regard to claim 13 & 20, teaches that the control block is configured to integrate the output of the angular velocity sensors to calculate inclination angles correction of the angular velocity sensors, and compare it to the measured inclination (see column 4, lines 32-45).

Response to Amendment

3. Applicant's arguments with respect to claims 10-23 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGA X. NGUYEN whose telephone number is (571)272-5217. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TARCZA H. THOMAS can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NGA X NGUYEN
Examiner
Art Unit 3662

NXN

/Thomas H. Tarcza/
Supervisory Patent Examiner, Art Unit 3662